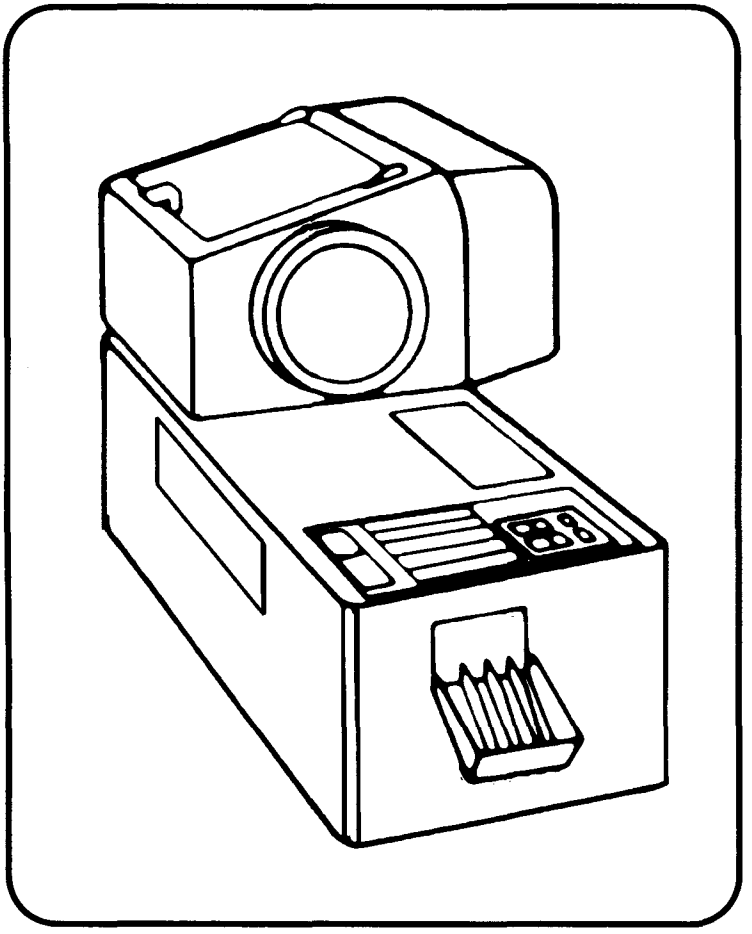
# OPERATING INSTRUCTIONS FOR PERI-PRO® INTRA-ORAL FILM DUPLICATOR/DAYLIGHT LOADER



AIR TECHNIQUES INC.

# INTRODUCTION

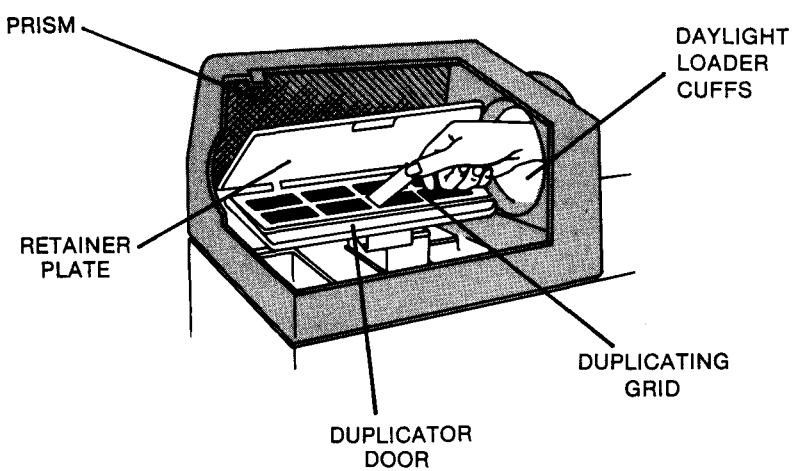
**The Film Duplicator/Daylight Loader for All Peri-Pro Intra-oral Film Processors combines the convenience of Daylight Loader film processing with a Film Duplicator.**

**Your new Peri-Pro Intra-Oral Film Duplicator/Daylight Loader –**

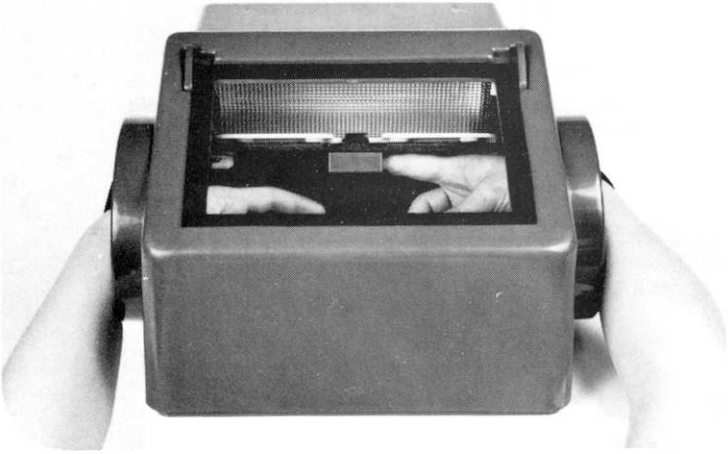
- will duplicate up to eight films simultaneously
- has an automatically timed exposure
- does not require a darkroom
- duplicates size 0, 1 or 2 intra-oral radiographs onto size 2 duplicating film

Before using the Film Duplicator/Daylight Loader, be sure to read these instructions thoroughly. The Peri-Pro Instruction Manual should also be reviewed prior to processing film.

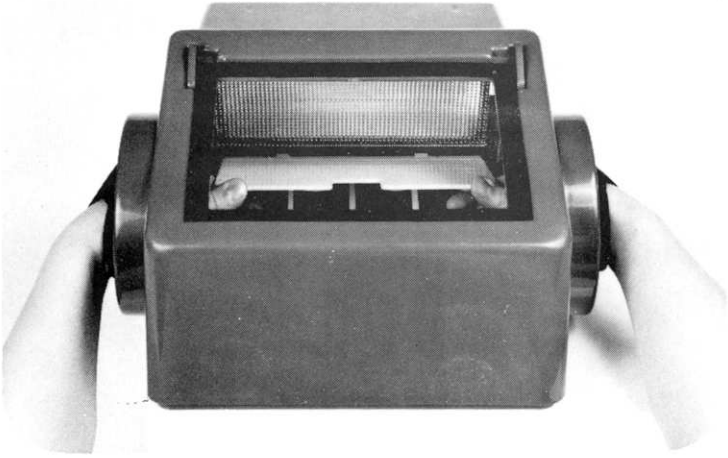
## Film Duplicator/Daylight Loader components:



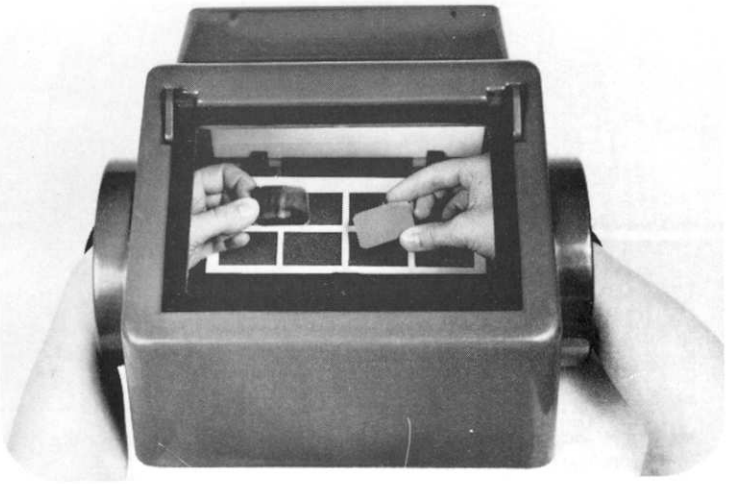
1. Place original developed radiographs and a sufficient number of duplicating films inside the Film Duplicator/Daylight Loader. NOTE: Some duplicate films are individually wrapped and can be handled in room light during this step. Some duplicating films are not individually wrapped and are in a common pouch.
2. Close view glass
3. Insert hands through cuffs and open Duplicator Door.



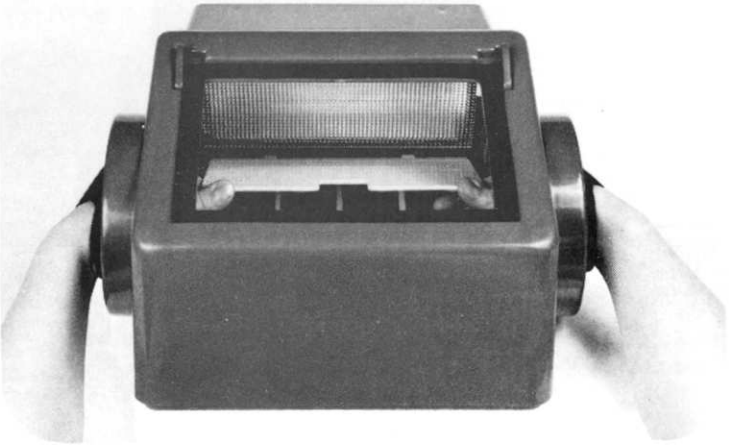
4. Separate Retainer Plate from Duplicator Door and lift the plate up to anchor it open. This will provide access to the Duplicating Grid.



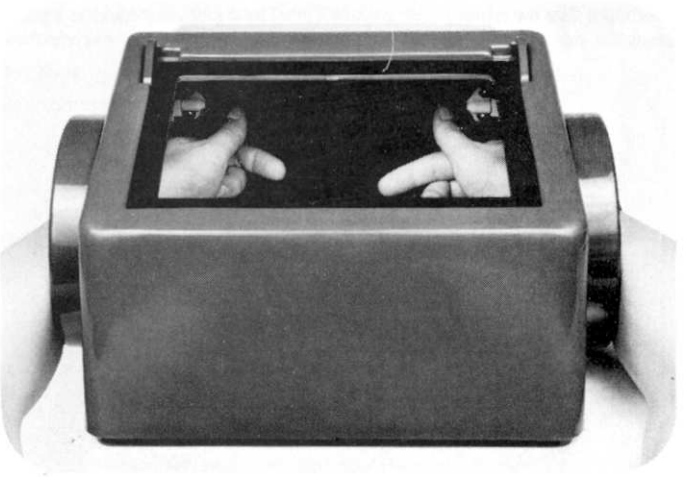
5. Remove the desired number of size 2 duplicating films (up to a maximum of eight) from their wrapping or from the packaging pouch and place each film inside a section of the grid with the lighter side of film (emulsion) facing up. NOTE: The duplicating film has a projecting pin dot on the emulsion side. This projecting dot should face up.



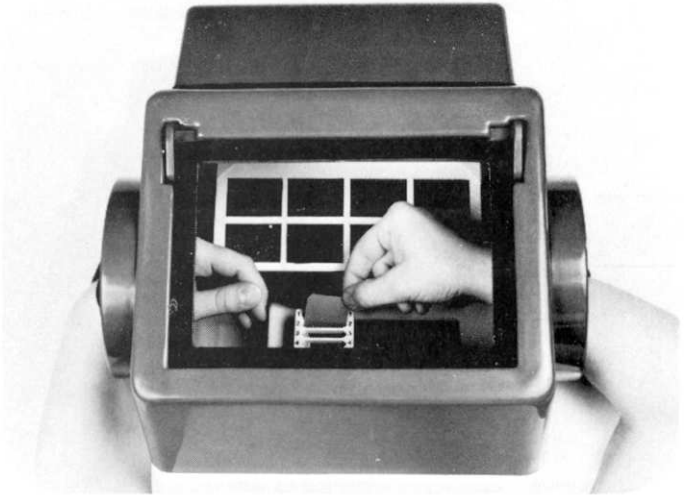
6. On each duplicating film place an original, size 0, 1 or 2 radiograph. Orient the original so that the concave side of the embossed dot aligns with and nests with the pin dot projection of the duplicating film.



7. Close Duplicator Door and push firmly with both hands to activate the light source.
   **CAUTION: Both latches must close securely or film blurriness will result.**



8. After light source shuts off, open Duplicator Door and separate the Retainer Plate from the Duplicating Grid.
9. Remove original films from the Duplicating Grid and set aside within the Daylight Loader.
10. Remove the duplicating film from the Duplicating Grid and process through the Peri-Pro in the usual manner.



11. The original radiographs may be removed from the Daylight Loader after the duplicates have dropped into the Peri-Pro.

## SECTION 3: TROUBLE SHOOTING

| Problem | Possible Cause | Corrective Measures |
|---|---|---|
| 1. Blurred film duplicates–on right side or left side | 1. Duplicating films are not making intimate contact with original radiographs. | 1. Make sure that both latches fully engage when closing duplicator door. |
| 2. All film duplicates blurred. | 2a. Duplicating films are not making intimate contact with original radiographs. | 2a. • Make sure that latches fully engage when closing duplicator door.<br>• Wait for light source to shut-off prior to opening duplicator door. |
| | 2b. Emulsion of duplicating films is placed face down. | 2b. Always place duplicating films so that the emulsion (light side of film) faces upward. |
| 3. Light films. | 3a. Exposure time set too long. | 3a. Decrease exposure time using adjustment screw located at right rear of Daylight Loader. (Rotate screw counter-clockwise to reduce exposure time). |
| | 3b. Light fog. | 3b. Use care not to expose undeveloped duplicating films to room light. |
| | 3c. Original radiographs are light. | 3c. Check technique factors when x-ray exposure is made. |

| Problem | Possible Cause | Corrective Measures |
|---|---|---|
| 7. Image not reproduced squarely onto duplicating film. | 7a. Original radiographs not placed correctly onto duplicating film. | 7a. Use care when placing original radiographs. Make sure that both the duplicating film and radiograph are positioned within a grid of the template. |
| | 7b. Duplicator Door closed before Retainer Plate is secured. | 7b. Always close and lock Retainer Plate prior to closing Duplicator Door. |
| | 7c. Retainer Plate is closed too quickly. | 7c. Close Retainer Plate slowly so as not to scatter films. |
| 8. Completely clear films. | 8a. Incorrect film placement. | 8a. Always place duplicating film first and then place radiograph onto duplicating film. |
| | 8b. Exposure time too long. | 8b. Decrease exposure time using adjustment screw located at right rear of Daylight Loader. (Rotate screw counter-clockwise to reduce exposure time.) |

## SECTION 4: REPLACEMENT PARTS

| ITEM | PART NUMBER |
|---|---|
| Replacement Bulbs | 105A |
| Prism | 92765 |
| Duplicator Door Assembly | 92750 |
| PC Board and Reflector Assembly | 92740 |
| Hinge Pin, Left | 90711 |
| Hinge Pin, Right | 90712 |
| Felt Gasket | 90713 |
| Hinge Socket | 90716 |
| Cuff Assembly | 90730 |
| View Glass Assembly (Amber) | 90720 |
| View Glass Asembly (Red) | 90780 |

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